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NP314T&NP318T RS-485 Series Desktop Serial Server Quick Installation Guide

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【Package Checklist】

Please check whether the package and accessories are intact while using the device for the first time.

1. Serial Server
2. Mounting lug x2
3. Power adapter
4. Foot pad x4
5. Straight-through cable
6. Warranty card
7. Certificate

If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

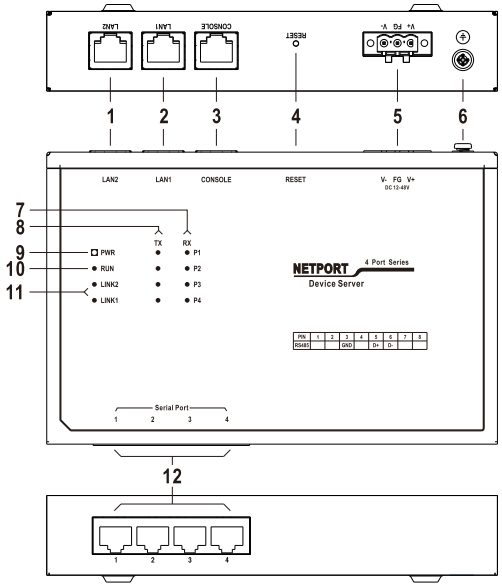
This series of products are desktop serial port networking server, and the model is:

Model I. NP314T-4DI (RS-485)-RJ-P (12-48VDC) (2 100M copper ports + 4 isolated RS-485 serial ports, 1 12~48VDC power supply)

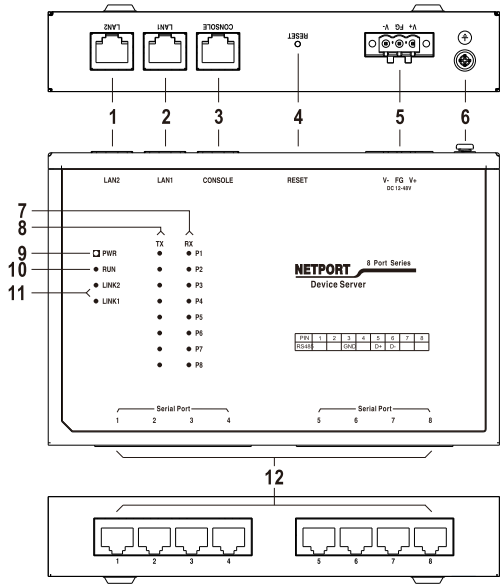
Model II. NP318T-8DI (RS-485)-RJ-P (12-48VDC) (2 100M copper ports +8 isolated RS-485 serial ports, 1 12~48VDC power supply)

【Panel Design】

➢ **Top view, main view and bottom view**

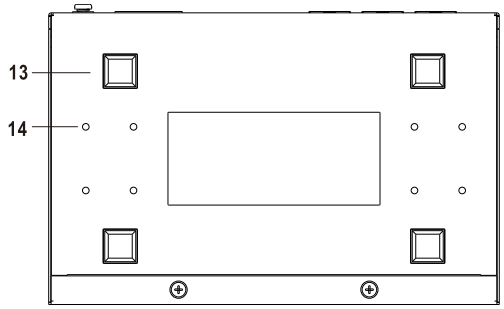


Model I



Model II

➢ **Rear view**



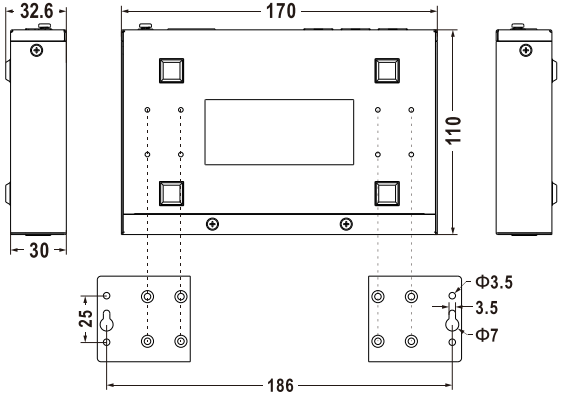
Model I, Model II

1. 10/100Base-T(X) 100M Ethernet port (LAN2)
2. 10/100Base-T(X) 100M Ethernet port (LAN1)
3. CONSOLE port (CONSOLE)
4. RESET button (RESET)
5. Power supply input terminal block
6. Grounding screw
7. Serial port data receiving indicator (RX1-RX8)
8. Serial port data transmission indicator (TX1-TX8)
9. Power supply indicator PWR

10. Running indicator (RUN)
11. Ethernet interface connection/activity state indicator (LINK1-LINK2)
12. RS-485/422 (Port1-Port4/8)
13. Foot pad
14. Wall-mounting location hole

【Mounting Dimension】

Unit: mm

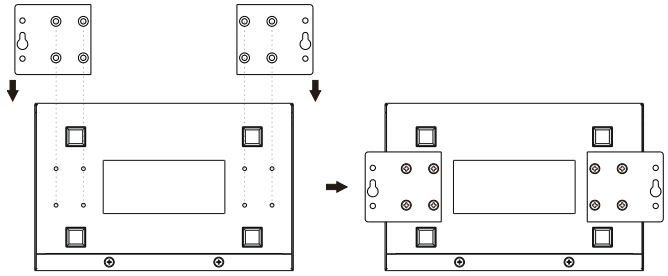


Notice before Mounting:

- Don't place or install the device in area near water or moisture, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before powering on the device, check the power specifications supported by the device to prevent device damage due to overvoltage.

【Wall-mounted Device Mounting】

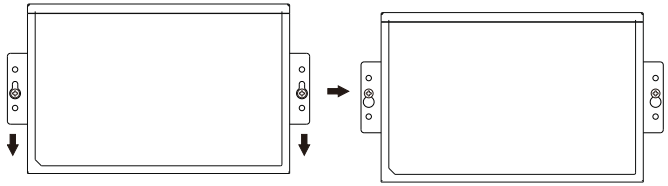
Step 1 Adopt M3 screw to install the left/right mounting board on the device backboard.



Step 2 On the wall of device mounting, place the device on the wall for reference or refer to the mounting dimension to mark two screw positions.

Step 3 Nail M4 screws on the wall and keep 2mm interspace reserved.

Step 4 Hang the device on two screws and slide downward, then tighten the screw to enhance stability, mounting ends.



【Wall-mounted Device Disassembling】

Step 1 Power off the device.

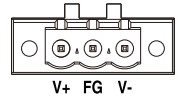
Step 2 Unscrew the screw on the wall about 2mm.

Step 3 Lift the device upward slightly; take out the device, disassembling ends.

Notice before power on:

- Power ON operation: First insert the power supply terminal block into the device power supply interface, and then plug the power supply plug contact and power on.
- Power OFF operation: First, remove the power plug, and then remove the wiring section of terminal block. Please pay attention to the above operation sequence.

【Power Supply Connection】



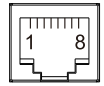
This series device supports 1 DC power input terminal, and adopts 3-pin 5.08mm pitch terminal blocks, in which V+ and V- are DC power input, FG is the power grounding input. The power supply supports non-polarity connection, and it can work normally after reverse connection. Power supply range: 12~48VDC.

【Reset Button Setting】



This series device provides 1 RESET button, press the button for 4-5s then release it to restore factory defaults.

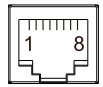
【Serial Port Connection】



Model I and Model II respectively provide 4 and 8 RS-485 serial ports, and the interface type is RJ45. The pin definitions as shown in the following table:

PIN	1	2	3	4	5	6	7	8
RS-485	—	—	GND	—	D+	D-	—	—
RS-422	—	T+	GND	T-	R+	R-	—	—

【Console Port Connection】



The series of device provides 1 program debugging port based on RS-232 serial port which can conduct device CLI command management after connecting to PC. The interface adopts RJ45 port, the RJ45 pin definitions are as follows:

Pin No.	2	3	5
Definition	TXD	RXD	GND

【Checking LED Indicator】

The series of devices provide LED indicators to monitor its operating status, which has simplified the overall troubleshooting process. The function of each LED is described in the table below:

LED	Indicate	Description
PWR	ON	Power supply is running normally
	OFF	Power supply is disconnected or running abnormally

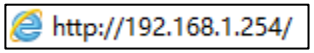
LED	Indicate	Description
RUN	ON	The system is starting or running abnormally
	Blinking	The system is running normally
	OFF	The system is not running or running abnormally
LINK (1-2)	ON	The Ethernet interface has established a valid network connection.
	Blinking	Ethernet port is in an active network status
	OFF	Ethernet port has not established valid network connection
TX (1-4/8)	Blinking	The serial port is transmitting data.
	OFF	No data or abnormal data is being transmitted through serial port.
RX (1-4/8)	Blinking	The serial port is receiving data
	OFF	The serial port is not receiving data or receiving data abnormally

【Logging in to WEB Interface】

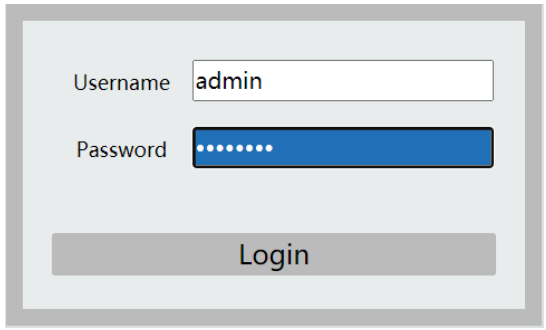
This device supports WEB management and configuration. Computer can access the device LAN1 via Ethernet interface. The way of logging in to device's configuration interface via IE browser or other browsers is shown as below:

Step 1 Configure the IP addresses of computer and the device to the same network segment, and the network between them can be mutually accessed.

Step 2 Enter device's IP address in the address bar of the computer browser.



Step 3 Enter device's username and password in the login window as shown below.



Step 4 Click "Login" button to login to the WEB interface of the device.

Note:

- The device operates in dual IP mode by default, the default IP address of LAN1 is "192.168.1.254", the default IP address of LAN2 is "192.168.8.254".
- The default user name and password of the device are "admin".
- If the user name or password is lost, user can restore it to factory settings via RESET button or management software; all modified configurations will be cleared after restoring to factory settings, so please backup configuration file in advance.
- Please refer to user manual for specific configuration method of logging in to WEB interface and other configurations about network management function.

【Specification】

Panel	
100M copper port	10/100Base-T(X) self-adaptive RJ45 port, support full/half duplex mode, MDI/MDI-X self-adaption
RS-485/422 serial port	Adopt RJ45 port
Console	CLI command management port (RS-232), RJ45
Indicator	Power indicator, Running indicator, Ethernet port connection/activity state indicator, Serial port data transmission and receiving indicator
Power Supply	
Input power supply	12~48VDC, supports non-polarity
Access terminal block	3-pin 5.08mm pitch terminal blocks
Power Consumption	
Model I	No-load: 1.9W@12VDC Full-load: 2.3W@12VDC
Model II	No-load: 2.3W@12VDC Full-load: 3.2W@12VDC
Working Environment	
Working temperature	-40~75℃
Storage temperature	-40~85℃
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal shell)

【Disposal of Waste Electrical and Electronic Equipment (WEEE 2012/19/EU)】

(Applicable in the EU-member states)

The crossed-out wheeled bin symbol on the equipment or its packaging indicates that the product, at the end of its service life, shall not be mixed with unsorted municipal waste but should be collected separately, in accordance with local laws and regulations.



A proper separate collection of end-of-life equipment for the subsequent recycling, treatment and environmentally compatible disposal, will help prevent potential damage to the

environment and human health, facilitating the reuse, recycling and/or recovery of its component materials.

Private users should contact their vendor or municipal waste management service and ask for disposal information.

Professional users should contact their suppliers and check the terms of their selling agreement.

This product must not be disposed of with other commercial waste.

Users’ cooperation in the correct disposal of this product will contribute to saving valuable resources and protecting the environment.